Purchasing Receipts

Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200

_	<u></u>	<u> </u>	Т
Supplie	McMaste Carr Supply	McMaste Carr Supply Co,	
Total	\$144.18	\$65.00	\$209 18
Past Due			
Aging Days	0	0	
Price/Unit	\$ 72.09 / ft	\$ 60.19 / ft	
Receive Date	4/18/2018	1/18/2018	
Status	Stock	Stock	
Container No	S062427	S062428	
Accounting Job No			
Received Quantity	2	-	8
Due Date	4/18/2018		
Order	2	-	3
Equipment ID			Total:
Project			
Part No			
Description	Nylon 6 White Round Bar 3.750"" Dia.	3ar 1.000"": MATERIAL: OIL MPREGNATED SINTERED SRONZE ACUND BAR AS PER SAE 441 TYPE 1, LLASS A OR STM B438 SRADE 1, YPE 2 OR AIL-B-5687D YPE 1, SRADE 1,	
Purchased Item	9 7	MBRONZR1.000	
Terms			
Rel	-	O.	
Item No	-	N	
Supplier	MCM001- VU		
PO No	PO039616		
	Description Part Project Equipment Order Due Received Accounting Container Status Date	Purchased Lem Round Forder Item Item Round Forder Item Round Forde	Fermal Purchased Description Part Description Part Description Date Quantity Job No No No Order Description Descrip

Plex 4/18/2018 11:56 AM dart. Tollis. Andrew



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO039616

Tel (613) 632-5200

Supplier:

MCM001-VU

McMaster-Carr Supply Co,

P.O. Box 7690

Chicago, IL 60680-7690 USA

Phone: 330 995 5500 Fax: 330 995 9600 PO Date: Due Date:

PO No:

PO039616

4/16/18 4/18/18

Purchase Order

Revision:

Revision Date: Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

2% 10 Net 30

Freight Terms:

Special Comments:

Items

Line Item		Supplier Part No	Description	Status	Due Date		Received Quantity	Balance	Unit Price (USD)	Extended Price
1	MT-NYLON 6- R3.750-W	8538K68	Nylon 6 White Round Bar 3.750" Dia.	Firmed	4/18/18	2 ft	287 of	2 ft	\$72.09/ft	\$144.18
2	MBRONZR1.000	6.5" long	Bronze Round Bar 1.000": MATERIAL: OIL IMPREGNATED SINTERED BRONZE ROUND BAR AS PER SAE 841 TYPE 1, CLASS A OR AMS 4805 OR ASTM B438 GRADE 1, TYPE 2 OR MIL-B-5687D TYPE 1, GRADE 1 receive ft	Firmed	4/18/18	1.08 ft	1,6 40 ft	1 ft	\$60.185185/ft	\$65.00
									Grand Total:	\$209.18

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 4/16/18 2:03 PM dart.lavoie.chantal



200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Packing List

Purchase Order PO039616

Order Placed By Chantal Lavoie

McMaster-Carr Number 2224014-01

Page 1 of 1

04/16/2018

Line Product	Ordered Shipped
1 8538K68 Off-White Nylon Rod, 3-3/4" Diameter, 2' Length	2 2 Feet
2 8932K45 Oil-Filled 841 Bearing Bronze Rod, 1" Diameter, 6-1/2" Long	2 2 Each

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MB(O) DATE: AP	72R182	_	PO / BATCH	1 NO.: <u>039</u>	616/5067	
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	25	THICKNESS ORDERED: 1.000 THICKNESS RECEIVED: 1.000 SHEET SIZE ORDERED: 1.000 SHEET SIZE RECEIVED: 1.000				
DESCRIPTION	NCR (Check Y/N)		12	COMMEN	TS	
SURFACE DAMAGE	YIM					
	P W			_		
CORROSION	Y(N)					
CORRECT GRAIN DIRECTION	Ý) N					
	Y) N	Astn	1 8438			
CORRECT THICKNESS PHOTO REQUIRED	Y) N	•				
	Y (W) Y) N	Date	33/1/1/	0 1 1		
	N	1074	3076/6	fart #	3932KY	7
	Y) N					
DOES THIS MATERIAL REQUIRE				-		
	Y(N)					
DOES THIS REQUIRE AN EXTRUSION REPORT	YN)				
CUT SAMPLE PIECE					SS CHECK.	
			SULTS BELOW			
TYPE OF MATERIAL	-	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE	-					-
HARDNESS / DUROMETER READING	3					
	testers	located in	the Quality Offic	l e		
QC 18 INSPECTION				ENCINEED	INC CICNOE	T (is
DAS				ENGINEER	ING SIGNOF	F (if required)
INSPECTED BY: 11			SIGN	IED OFF BY:		
DATE: 9-89APR 18	2018			DATE:		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

Specifications Met: ASTM B438

Powdered bronze is pressed and then impregnated with SAE 30 oil to make this material self-lubricating. Use it to make bearings and parts for hard-to-reach areas that would be difficult to at well pumps and turbine blades.

wen by	ингра ана к	arrane o	Idues.		
	Tolerance			3"	6 1/2"
OD	Rating	ID		Lg.	Lg.
3/16"	Wall Thick.				
1-	Oversized	5.511	8931K111	\$17.27	\$26.57
			0.000 1151 111	011.21	020.01
	fall Thick.				
1"	Oversized	1:2"	8931K121	18.27	28.11 34.73
1 1/6"	Oversized	5.8"	8931K131	22.57	34.73
1 1/4"	Oversized	3:4"	8931K141	24.27	37.34
1 378"	Oversized	7/9"	8931K151	28.14	43.29
1 1/2"	Oversized		8931K161	30.66	47.17
1 374"	Oversized	1 1/4"	8931K171	31.26	48.09
2"	Oversized	1 1/2"	8931K181	36.08	55.51
2 174"	Oversized	1 3/4"	8931K191	41.83	64.35
			03011(17)	41.00	04.55
5/16" V	Vall Thick.				
1 1/8"	Oversized	1/2"	8931K201	24.02	36.96
1 1/4	Oversized	578"	3931K211	25.08	38.58
1 1/2"	Oversized	7:3"	8931K221	32.23	49.59
1.5/6"	Oversized	1"	8931K231	34.11	52.47
	all Thick.				
1 174"	Oversized	1/2"	3931K241	25.81	39.70
1.3/8"	Oversized	5.6"	8931K251	33.56	51.63
1 1/2"	Oversized	3/4"	\$931K261	32.28	49.66
1 3/4"	Oversized	1"	8931K271	38.42	59.11
2"	Oversized	1 1/4"	8931K281	42.00	64.62
2 1/4"	Oversized	1 1:2"	8931K291	50.56	77.78
2 1/2"	Oversized	1 3/4"	6931K301	53.57	82.42
2 3/4"	Oversized	2"	8931K311	58.79	90.44
3"	Oversized	2 1/4"	8931K321	68.12	
3 3/4"	Oversized	3"	8931K331		104.80
C 224	CAGIZISEG	3	090 (1993)	82.73	127.27
	Tolerance			3"	6 1/2"
OD	Rating	ID		Lg.	Lg.
7/16" V	all Thick.				
1.1/2"	Oversized	5/8"	8931K341	\$34.35	\$52.84
					402.01
	ill Thick.				
1 1/2"	Oversized	1/2"	8931K351	37.06	57.02
1 3/4"	Oversized	3:4"	8931K361	43.90	67.54
2"	Oversized	1"	8931K371	48.93	75.28
2 1:4"	Oversized	1.1:4"	8931K331	58.86	90.55
2 1/2"	Oversized	1 1/2"	8931K391	61.91	95.25
2 3/4"	Oversized	1 3/4	8931K401	68.61	105.55
3"	Oversized	2"	8931K411	78.49	120.76
3 1/4"	Oversized	2 1/4"	8931K421	87.10	134.00
3 112"	Oversized	2 1/2"	8931K431	92.86	142.86
4"	Oversized	3"	8931K441	102.80	158.15
		~	00011144	102.00	130.13
5/8" Wa	III Thick.				
2"	Oversized	3/4"	8931K451	53.95	83.00
2 1/2"	Oversized	1 1:4"	8931K461	69.39	106.75
3"	Oversized	F 3/4"	8931K471	84.51	130.02
3 324"	Oversized	2 1:2"	8931K481	116.76	179.63
				110.70	170.00
	Wall Thick.				
2"	Oversized	5:8"	8931K491	56.20	86.46
	Tolerance			3"	6 1/2"
OD	Rating	ID			
	Rating	וט		Lg.	Lg.
2" VVa	Il Thick.				22222
V.	Oversized	1/2"	8931K501	\$60.68	\$93.36
2 1/2"	Oversized	1"	8931K511	80.28	123.50
3"	Oversized	1 1/2"	8931K521	92.44	142.21
4"	Oversized	2 1/2"	8931K531	136.51	210.02
7/8" Wa	R Think				
3"	Oversized	4	89318541	97.87	150 57
G contra	Cyversized	4 4 4 1			150.57
	Oversized	1 3/4	8931K551	133.25	205.00
1" Wall	Thick.				
3"	Oversized	1"	8931K561	104.20	160.31
	Oversized	2"	8931K571	156.57	240.87
	Oversized	2 4+211	8931K531	190.41	
5"		3"			292.94
6"	Oversized	4"	8931K591	207.77	319.64
7"	Oversized	4	8931K601	256.87	395.18
1	Oversized	5"	8931K611	306.15	471.00
1 1/2" W	all Thick.				
	Oversized	3"	6931K621	327.13	503.27
10.55		(7)	- WHITE I	021.10	000.21

Oil-Filled 841 Bearing Bronze Rods



- · Yield Strength, 11,000 psi

- Hardness, Not Rated
 Temper, Not Rated
 Heat Treatable, No.

Specifications Met ASTM
 B439

Powdered bronze is pressed and then impregnated with SAE 30 oil to make this material self-flubricating. Use it to make bearings and parts for hard-to-reach areas that would be difficult to access for lubrication, such as well pumps and turbine blades.

2011-07-19

10.10.25 BY DATE DESCRIPTION A NEW ISSUE

REV. A SHEET 1 OF 1 DART AEROSPACE LTD
HAWKESBURY, ONTARIO CANADA
DRAWING NO.
MBRONZR
SHEE TITLE
BRONZE ROUND BAR
COPYRIGHT @ 2010 BY DART AEROSPACE LTD
COPYRIGHT & 2010 BY DART AEROSPACE 10.10.25 CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE DESIGN

NTS

PURCHASE MATERIAL: OIL IMPREGNATED SINTERED BRONZE ROUND BAR

SAE 841 TYPE 1, CLASS A OR AMS 4805 OR ASTM B498 GRADE 1, TYPE 2 OR MIL-B-5687D TYPE 1, GRADE 1 SPECIFICATION:

PART NUMBER:

MBRONZRD.DDD

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8 ROUND BAR = MBRONZR0.625

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SPECIFICATION CONTROL DRAWING

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL:A		14/0 8 21) <u>3</u> . 750 —		PO / BATC	н no. <u>039</u> 0	1016/50624	27
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:		_ _ _	THIC	CKNESS ORD CKNESS RECE ET SIZE ORDI ET SIZE RECE	EIVED: 3	150 150			
DESCRIPTION	(CI	CR neck (N)		*		COMMEN	ITS		
SURFACE DAMAGE	Y	IN	 						
CORRECT FINISH	(Y	N	1						
CORROSION	Y	N							
CORRECT GRAIN DIRECTION	(V)	N	4.7						
CORRECT MATERIAL PER M-DRAWING	3	N	ASTh	7 059	89				
CORRECT THICKNESS PHOTO REQUIRED	Y	N							
CORRECT REF # TO LINK CERT	(R)	N	Part -	2-/1/-		0 V 1"	2.2201//25		
	M	N	10H	39616		1017 778	2538168		
CORRECT M# ON THE MATERIAL	M	N							
DOES THIS MATERIAL REQUIRE	U								
ENGINEERING SIGN OFF	Υ	M							
DOES THIS REQUIRE AN		2							
EXTRUSION REPORT	Υ								
CUT SAMPLE PIECE	OF	MAAT	EDIAL A	ND DDE	FOR	4.4.114.004.15	22 21 22		
00.00.000	. Oi F	RECC	ORD RES	SULTS BI	FLOW	VI A HARDNE	SS CHECK.		
	Ť		HRC	HRE		DUR A	DUR D	WEBSTER	
YPE OF MATERIAL				1111	-	DONA	DOND	WEBSTER	
IZE OF TEST SAMPLE	- 1								
ARDNESS / DUROMETER READIN	IG					***			
	<u>te</u>	sters	located in	the Qualit	y Offic	<u>e</u>			
C 18 INSPECTION	ere en la	Silver in				CNOWER	INO OLONIO		
DAS						ENGINEER	ING SIGNOF	F (if required)	
INSPECTED BY: 11					SIGN	ED OFF BY:			
DATE: 9-89 APR 18	201	8				DATE:			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Ω APPROVED WW THE CONTROL OF THE CO NYLON 6 ROUND BAR ВУ N/ MT-NYLON 6-R 17.08.23 DATE DESCRIPTION NEW ISSUE EG. 5/8" ROUND BAR = MT-NYLON 6-R0.625-W WHERE "D.DDD" = DIAMETER IN INCHES WHERE C = COLOR [W= WHITE] / [B= BLACK] 3 REV. SPECIFICATION CONTROL DRAWING MT-NYLON 6-R[D.DDD]-C NYLON 6 ROUND BAR ASTM D5989 PURCHASE MATERIAL: SPECIFICATION: PART NUMBER:

2

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O

McMASTER-CARR

Nylon

For comparative information about plastics, see page 3692.

Nylon Sheets, Bars, and Strips



With excellenct wear and abrasion resistance, these nylon 6/6 sheets, bars, and strips are often used for bearings, gears, and other high-wear parts. They resist gasoline, mineral cit, and refri

- · Color, Off-White or Black

- Temperature Range: -40° to 185° F
 Tensile Strength: 11.200 psi (Excellent)
 Impact Strength: 1.0 ft.-lbs./in. (Good)

 Impact Strength: 1.0 ft.-lbs./in. (Good)
 For Use Outdoors: No Specifications Met: Off-White: Less than 18" Thibs: ASTM DS885, ASTM D8779, Made of FDA Listed Material, NSF/ANSI Standard 61 for Drinking Water, UL 94HB 18" Thick, and larger, ASTM D5989, ASTM D6779, Made of FDA Listed Material, NSF/ANSI Standard 61 for Drinking Water, III, 94½" Water, UL 94V2 Black: ASTM D5989, ASTM D6779

		Off-W	hite	Black		
Wd.	Lg.		Each		Each	
1/32"	Thick	. (-0.003" to	+0.003"	Tolerance)		
6"	6"	8539K8S1	\$1.74	8540K311	\$2.24	
12"	12"	8539K23	3.66	8540K121	4.24	
12"	24"	8539K29	6.68	8540K221	7.73	
12"	48"	8539K696	12.71		14.7	
24"	24"	8539K891	12.71		14.71	
24"	48"	8539K491	21.54		24.94	
3/64"	Thick	(0" to +0.0	06" Tole	rance)		
6.	6"	8539K883	2.90	8540K313	3.37	
12"	12"	8589K232	6.08	8540K123	7.07	
12"	24"	8539K292	11.09		12.90	
12"	43"	85391,698	21.10		24.55	
24"	24"	8539K893	21.10		24.55	
24"	43"	8539K493	35.76	8540K623	41.61	
1/16"	Thick.	(-0.005" to	+0.005"	Tolerance)		
6"	5"	8539K884	3.24		3.68	
12"	12"	8539K11	6.80		7.58	
12"	24"	8539K31	12.58		14.68	
12"	48"	8539K71	23.63		25.80	
24"	24"	8539K91	23.63		25.97	
24"	48"	3539K51	40.00	8540K611	45.49	
5/64"	Thick.	(-0.009" to	+0.009"	Tolerance)		
5	6"	8539K885	4.03	8540K315	5.34	
12"	12"	8539K233	9.65	\$540K124	11.20	
12"	24"	3539K311	17.59	8540K224	20.43	
12"	48"	8539K711	31.77	8540K724	36.90	
24"	24"	B539K911	31.77	3540k424	36.90	
24"	-	8539K511	56.74	8540K624	65.89	
3/32"	Thick.	(-0.007" to	+0.007"	Tolerance)		
6"		8539K886	4.09	8540K316	4.65	
12"	12"	8539K12	10.96	8540K112	13.04	
12"	24"	8539K32	20.23	8540K212	23.81	
12"		8539K72	36.49	9540K712	40.60	
24"		8539K92	36.49	8540K412	40.60	
24"		8539K52	64.96	8540K612	73.80	
7/64"	Thick.	(-0.016" to	+0" Toler	rance)		
6"		8539K887	4.38	8540K317	5.10	
12"	12"	8539K234	11.82	8540K125	13.75	
12"	5.000,000	8539K321	21.54	8540K225	25.07	
12"		8539K721	38.92	8540K725	45.29	
24"		8539K921	38.92	8540K425	45.29	
24"		35391:521	69.50	8540K625	80.88	